



Aerosol Distribution and Dilution System ADD 536

Hospital operating rooms are specially designed to avoid contaminations and therefore additional infections of patients during operations. To assure a low level of particle contaminations a laminar air flow is applied to the operating table. To verify the retention efficiency of this flow regime a verification with a defined test aerosol is required according to the standards DIN 1946-4 and SWKI 99-3. For that reason a total particle rate of  $6,3 \cdot 10^9$  P/min has to be distributed to six different positions and emitted with a reliable long term stability. From the standards it is also required that this total particle rate is continuously monitored and controlled by a particle counter. The Topas Aerosol Distribution and Dilution system ADD 536 meets all these required demands for providing a defined test aerosol with the following features:

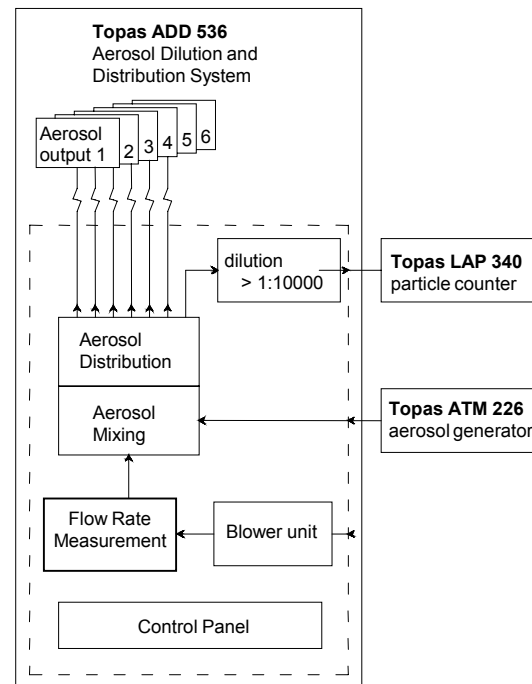
- Internal generation of a total nominal flow (free of particles) for supplying the six outlet ports
- Homogeneous mixing of the test aerosol coming from an external aerosol generator (e.g. ATM 226) with this total nominal flow
- Internal adjustable aerosol dilution ratio for direct connection of a particle counter (e.g. LAP 340) used for controlling a stable particle rate
- Uniform aerosol distribution to six outlet ports

### Special Features

- Designed to fulfill the requirements of the DIN 1946-4, SWKI 99-3 and equivalent international standards
- Reliable particle generation rate with an excellent long term stability (particles/time)
- Status information on dilution ratio and total flow rate integrated at the front

### Applications

- Inspection and verification of operating rooms/theatres according to the DIN 1946-4, VDI 2167 Bl.1, SWKI 99-3 and equivalent international standards
- Simultaneous calibration of several particle counters (e.g. LAP 340) by providing a reliable multiple particle source in combination with an aerosol generator (e.g. ATM 226)



Setup of the ADD 536

## Specifications



Aerosol - Outlets

### Details

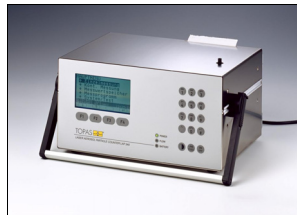
- Particle rate can be controlled continuously by an external particle counter
- Compact portable design
- Internal generation of total nominal flow, no compressed air required
- Adjustable aerosol dilution at adjustable sampling flow rates with excellent reliability for direct connection of different particle counter types
- Dilution ratio electronically controlled

### Necessary Accessories

- Particle Counter *LAP 340*  
(flow rate: 0,1...1 cfm)
- Aerosol Generator *ATM 226*  
(flow rate <300l/h, particle rate >6,3·10<sup>9</sup>P/min)
- Software *CREWin*



Aerosol Generator ATM 226



Particle Counter LAP 340

### Technical Data

Dilution Ratio	Adjustable to the used particle counter, > 1:10000
Flow Rate of the Particle Counter	max. 28,3 l/min (1 cfm)
Flow Rate of the Aerosol Generator	max. 5 l/min
Internal Total Flow Rate	100 l/min
Outlet Ports	6 pieces with diameter 65 mm
Power Supply	230V AC
Dimensions	250 x 340 x 330 mm
Hose Connector	10 mm
Weight	8,5 kg

QMS certified to  
DIN EN ISO 9001.



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For more information please  
visit our website at  
[www.topas-gmbh.de](http://www.topas-gmbh.de)

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